

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-9. (Canceled)

10. (Currently Amended) An olefin-trimerizing process, which comprises trimerizing an olefin in the presence of a catalyst comprising

(A) a tantalum ~~compound~~ halide, and

(B) an organic metal compound,

wherein the organic metal compound (B) comprises at least one group selected from the group consisting of isobutyl, homo-allyl, cyclopentylmethyl, cyclohexylmethyl, and 2-phenethyl groups, or

the organic metal compound (B) is an isopropylmagnesium halide, an isobutylmagnesium halide, a sec-butylmagnesium halide, a cyclopentylmagnesium halide, a cyclohexylmagnesium halide, a 1-phenethylmagnesium halide, a 2-phenethylmagnesium halide, triisopropylaluminum, triisobutylaluminum, tri-sec-butylaluminum, tricyclohexylaluminum, isobutylaluminum dichloride, diisobutylaluminum chloride, a diisobutylaluminum halide, a modified methylaluminoxane, isobutylaluminoxane, tetraisopropyltin, isopropyltrimethyltin, tetraisobutyltin or a diisobutyltin dihalide.

~~at least one group selected from the group consisting of the following (1) to (5):~~

~~(1) a branched or cycloalkyl-substituted primary alkyl group having 4 to 15 carbon atoms,~~

~~(2) an aryl-substituted primary alkyl group having 7 to 15 carbon atoms,~~

~~(3) a 3-alkenyl group having 4 to 15 carbon atoms,~~

~~(4) a cyclic alkyl group having 3 to 15 carbon atoms, and~~

~~(5) a secondary alkenyl group having 4 to 15 carbon atoms.~~

11. (Original) The olefin-trimerizing process according to claim 10, which is carried out at an absolute pressure of from normal pressure to a pressurized pressure.

12. (Original) The olefin-trimerizing process according to claim 11, wherein the absolute pressure is from normal pressure to 30 MPa.

13. (Previously presented) The olefin-trimerizing process according to claim 10, which is carried out at a temperature of 150°C or lower.

14. (Original) The olefin-trimerizing process according to claim 13, which is carried out at a temperature of 10 to 80°C.

15. (Previously presented) The olefin-trimerizing process according to claim 10, which is carried out in the presence of a solvent.

16. (Original) The olefin-trimerizing process according to claim 15, wherein the solvent is an aromatic compound.

17. (Original) The olefin-trimerizing process according to claim 15, wherein the solvent is at least one selected from the group consisting of benzene, toluene, xylene, chlorobenzene and dichlorobenzene.

18. (Previously presented) The olefin-trimerizing process according to claim 10, wherein the olefin is ethylene.

19. (Previously presented) The process according to claim 10, wherein the tantalum compound (A) is a tantalum halide.

20. (Canceled)

21. (Previously presented) The process according to claim 10, wherein the organic metal compound (B) comprises isobutyl group.

22. (Canceled)

23. (Previously presented) The process according to claim 10, wherein the organic metal compound (B) is triisobutylaluminum, a modified methylaluminoxane, or isobutylaluminoxane.

24. (Previously presented) The process according to claim 10, wherein the amount of the organic metal compound (B) is from 0.5 to 3 moles in terms of the alkyl group(s) per mole of the tantalum compound (A).

25. (Currently Amended) The process according to claim 10, the catalyst is a catalyst obtained by contacting the tantalum ~~compound~~ halide (A) with the organic metal compound (B).